

Claims

1.

1 A method of making a dispenser package for a fluent product, which comprises:

2 (a) integrally molding a plastic container having a flexible body with a sidewall
3 having a central axis, a closed bottom, a top wall with at least one opening offset from said axis,
4 and a circumferential exterior channel extending around said sidewall adjacent to said top wall,

5 (b) providing a closure having a base wall, a peripheral skirt, and a rib
6 extending radially inwardly from said skirt for slidable receipt in said channel to mount said
7 closure on said container for rotation about said axis, said closure having an opening for registry
8 with said at least one opening in said top wall for dispensing product from said package, and

9 (c) providing detent means on said base wall of said closure and said top wall
10 of said container for releasably locking said closure to said container with said opening in said
11 closure in registry with said at least one opening in said container,

12 said detent means comprising a second opening in said top wall angularly spaced
13 from said at least one opening, and a lug on said base wall angularly spaced from said opening in
14 said closure for registry with said second opening in said top wall when said opening in said
15 closure registers with said at least one opening in said top wall.

2.

1 The method set forth in claim 1 wherein said at least one opening and said second
2 opening in said top wall are at equal radial offset from said axis, such that said lug on said closure
3 is constructed to cooperate with said at least one opening in said top wall for releasably locking
4 said closure to said container with said opening in said closure out of registry with said at least
5 one opening in said top wall.

3.

1 The method set forth in claim 2 wherein said lug on said closure comprises a
2 depression in said base wall.

4.

1 The method set forth in claim 3 wherein said base wall includes a plurality of said
2 depressions for releasably locking said closure to said container in a plurality of angularly spaced
3 positions.

5.

1 The method set forth in claim 1 further comprising the step of mounting a check
2 valve in said at least one opening in said top wall.

6.

1 The method set forth in claim 1 wherein said opening in said closure base wall
2 comprises an axial portion for registry with said at least one opening in said container top wall,
3 and a radial portion that extends through said base wall to said skirt.

7.

1 The method set forth in claim 1 further comprising the step of providing a
2 circumferential array of outer surface ribs extending around said peripheral skirt to facilitate
3 rotation of said closure on said container.

8.

1 A method of making a dispenser package for a fluent product, which comprises
2 the steps of:

3 (a) integrally molding a plastic container having a flexible body with a sidewall
4 and a central axis, a closed bottom and a top wall having a first opening centered on said axis and
5 at least one second opening offset from said axis,

6 (b) providing a closure that has a base wall and a peripheral skirt, said base
7 wall having an annular axially extending wall with interlocking means for engaging said first
8 opening in said top wall to mount said closure on said container, and a flip top hinged to said
9 closure for selectively opening and closing said at least one opening in said container, and

10 (c) non-rotatably mounting said closure on said container.

9.

1 The method set forth in claim 8 wherein said flip top has a plug for internal sealing
2 registry with said second opening in said container when said flip top is closed.

10.

1 The method set forth in claim 8 wherein said interlocking means comprises a
2 radially outwardly extending rib on said annular axially extending wall for snap-fit receipt through
3 said first opening in said top wall.

11.

1 The method set forth in claim 8 wherein said container top wall has a recessed
2 portion in which said first opening, said second openings and said closure are disposed.

12.

1 A method of making a closure that comprises the step of molding a plastic closure
2 that has a base wall and a peripheral skirt, said base wall having an annular axially extending wall
3 spaced radially inwardly from said peripheral skirt with interlocking means on said axially
4 extending wall for engaging an opening in a top wall of a container to mount said closure on the
5 container, and providing means for selectively opening and closing a dispensing opening in the
6 container, said interlocking means comprising a radially inwardly extending bead at an end of said
7 annular axially extending wall remote from said base wall.

13.

1 The method set forth in claim 12 wherein said selectively opening means comprises
2 a flip top hinged to said closure.

14.

1 The method set forth in claim 13 wherein said flip top has a plug for internal
2 sealing registry with the dispensing opening in the container when said flip top is closed.